## IN THE CLAIMS

Please replace the claims now on file with the following claims.

- 1-215. (Canceled)
- (Currently Amended) A diffractive multifocal intraocular lens comprising:
- a first refractive surface [[;]] and a second refractive surface, said second surface opposing said first surface, said second surface having a second shape:

wherein said first surface includes a diffractive pattern on at least one of said first refractive surface and said second refractive surface imposed on a first shape;

wherein said first refractive surface, said second refractive surface, and said diffractive pattern said first surface and said second surface result in a base focus and an additional focus; and

wherein at least one of said first refractive surface shape and said second refractive surface shape has an aspheric component to its shape.

- 217. (Previously Presented) The lens of claim 216 wherein said aspheric component is a prolate shape.
- 218. (Previously Presented) The lens of claim 216 wherein said aspheric component reduces spherical aberration of a wavefront that passes through said lens.
- 219. (Previously Presented) The lens of claim 218 wherein, when said wavefront is represented as a series of Zernike polynomials, a Zernike Z11 term describing said wavefront is reduced when said wavefront passes through said lens.
- 220. (Previously Presented) The lens of claim 219 wherein said series of Zernike polynomials comprises up to at least fourth order terms.
- 221. (Previously Presented) The lens of claim 216 wherein said lens comprises at least one of a silicone, a hydrogel, and an acrylate.
- 222. (Currently amended) The lens of claim 216 wherein the same refractive surface defines both said aspheric component and said diffractive pattern.
- 223. (Previously Presented) The lens of claim 216 wherein an add power for said additional focus is between 2 and 6 diopters.
- 224. (Previously Presented) The lens of claim 216 wherein an add power for said additional focus is 3 to 4 diopters.
  - 225. (Previously Presented) The lens of claim 216 wherein a light distribution

between said base focus and said additional focus is between 70%:30% to 30%:70%.

- 226. (Previously Presented) The lens of claim 216 wherein a light distribution between said base focus and said additional focus is 50%:50%.
- 227. (New) The lens of claim 216, wherein one of said first shape and said second shape is spherical.
- 228. (New) The lens of claim 216 wherein said lens is designed to reduce wavefront aberrations of light passing into the eye when said lens has replaced a natural lens of an eye.
  - 229. (New) The lens of claim 216 having a base power of 18 diopters.
  - 230. (New) The lens of claim 216 having a diameter of 6 millimeters.
  - 231. (New) The lens of claim 216 having a thickness of 1.1 millimeters.
- 232. (New) The lens of claim 216 wherein the first and second surfaces have radii of curvature between 12 and 13 millimeters.
- 233. (New) The lense of claim 216, wherein said lens is designed to replace a natural lens of an eye.